

PATENT COOPERATION TRE **PCT**

INTERNATIONAL PRELIMINARY EXAMINATION REPORT

(PCT Article 36 and Rule 70)

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MC 159		FOR FURTHER ACTION See Notification of Transmittal of International Preliminary Examination Report (Form PCT/IPEA/416)
PCT/GB	al application No. 03/02843	International filing date (day/month/year) 02.07.2003 Priority date (day/month/year) 04.07.2002
Internation C07C51	al Patent Classification (IPC) or	both national classification and IPC
Applicant JOHNSC	ON MATTHEY PUBLIC LI	MITED COMPANY et al.
. 1. This Autr	s international preliminary ex nority and is transmitted to th	mination report has been prepared by this International Preliminary Examining applicant according to Article 36.
2. This	REPORT consists of a tota	of 4 sheets, including this cover sheet.
Thes	This report is also accomp been amended and are the (see Rule 70.16 and Section (see annexes consist of a total	nied by ANNEXES, i.e. sheets of the description, claims and/or drawings which have basis for this report and/or sheets containing rectifications made before this Authority n 607 of the Administrative Instructions under the PCT).
3. This		elating to the following items:
]	Basis of the opinion	
11	☐ Priority	
Ш	Non-establishment of	opinion with regard to novelty, inventive step and industrial applicability
IV V	Lack of unity of inven	on
V	Reasoned statement citations and explana	under Rule 66.2(a)(ii) with regard to novelty, inventive step or industrial applicability; ons supporting such statement
VI	☐ Certain documents ci	one deporting such statement
VII		nternational application
VIII		n the international application
Date of subn	nission of the demand	Date of completion of this report
17.01.200		08.03.2004
Name and m preliminary e	nailing address of the internation	Authorized Officer.
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INTERNATIONAL PRELIMINARY EXAMINATION REPORT

International application No.

PCT/GB 03/02843

I.	Basis	of	the	report
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1. With regard to the elements of the international application (Replacement sheets which have been furnished to the receiving Office in response to an invitation under Article 14 are referred to in this report as "originally filed" and are not annexed to this report since they do not contain amendments (Rules 70.16 and 70.17)): **Description, Pages** 1-7 as originally filed Claims, Numbers 1-7 as originally filed With regard to the language, all the elements marked above were available or furnished to this Authority in the language in which the international application was filed, unless otherwise indicated under this item. These elements were available or furnished to this Authority in the following language: which is: the language of a translation furnished for the purposes of the international search (under Rule 23.1(b)). the language of publication of the international application (under Rule 48.3(b)). ·O the language of a translation furnished for the purposes of international preliminary examination (under Rule 55.2 and/or 55.3). 3. With regard to any nucleotide and/or amino acid sequence disclosed in the international application, the international preliminary examination was carried out on the basis of the sequence listing: contained in the international application in written form. filed together with the international application in computer readable form. furnished subsequently to this Authority in written form. furnished subsequently to this Authority in computer readable form. The statement that the subsequently furnished written sequence listing does not go beyond the disclosure in the international application as filed has been furnished. The statement that the information recorded in computer readable form is identical to the written sequence listing has been furnished. 4. The amendments have resulted in the cancellation of: the description, pages: the claims, Nos.: the drawings, sheets: This report has been established as if (some of) the amendments had not been made, since they have been considered to go beyond the disclosure as filed (Rule 70.2(c)). (Any replacement sheet containing such amendments must be referred to under item 1 and annexed to this report.)

6. Additional observations, if necessary:

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V. Reasoned statement under Article 35(2) with regard to novelty, inventive site of the statement of the sta	tep or industrial	applicability
citations and explanations supporting such statement	;)	

1. Statement

Novelty (N)

Yes: Claims

1-7

No:

No:

Inventive step (IS)

Yes: Claims

Claims

Claims

1-7

1-7

Yes: Claims

No: Claims

2. Citations and explanations

Industrial applicability (IA)

see separate sheet

Section V

D1: US-A-4 440 649 D2: EP-A-0 572 113.

The present application is directed to a method of treating an alkali metal carboxylate salt brine contaminated with chloride ion, comprising admixing such contaminated brine with a solution of a silver salt, especially silver nitrate, causing silver chloride to be formed in a reaction mixture and separating the silver chloride from the residual brine.

D1 represents the closest prior art and discloses potassium acetate sea water brine contaminated with chloride ion. D1 differs from the subject matter of the present application insofar that the chloride ions are not removed from the brine.

The technical problem may be regarded as the provision of a process for reusing alkali metal carboxylate salt brine contaminated with chloride ion. The solution is given in claim 1 and concerns the separation of chloride ion via precipitation as silver chloride involving a silver salt.

Since alkali metal carboxylate salt brine is used in the field of drilling fluids, a high chloride ion concentration causes the brine to be more corrosive to the tubular goods.

It is, however, not deducible for the skilled person in the art from D1 to separate the chloride ions by precipitation with silver salts. Although it is known, that chloride can be precipitated as silver chloride, to use this method in the field of chloride contaminated alkali metal carboxylate salt brine is not obvious for the skilled person, because further options as for example ion exchangers would be applied.

Thus, the subject matter of claims 1-7 fulfills the criteria of Article 33(2) and (3) PCT with respect to the available prior art.